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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/077,613	02/15/2002	Amab Das	16-20 2876		
32498	7590 06/02/2006		EXAMINER		
CAPITOL PA	ATENT & TRADEMA	DOAN, PH	DOAN, PHUOC HUU		
ATTN: JOHN CURTIN P.O. BOX 1995 VIENNA, VA 22183			ART UNIT	PAPER NUMBER	
			2617		
			DATE MAILED: 06/02/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	Application No. Applicant(s)					
Office Action Summary		10/077,61	3	DAS ET AL.				
		Examiner		Art Unit				
		PHUOC H	. DOAN	2617				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	Responsive to communication(s) filed on	15 May 2006.						
·	This action is FINAL . 2b)⊠ This action is non-final.							
′=	, —							
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠	4)⊠ Claim(s) <u>1-14 and 16-20</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) 🗌	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-14 and 16-20</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8) 🗌	8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9)	The specification is objected to by the Exa	miner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	O-152)			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05/15/06 has been entered.

Response to Arguments

2. Applicant's arguments filed 05/15/06 have been fully considered but they are not persuasive.

Applicant's remarks: Bolourchi fails to disclose each and every feature of the claimed inventions such as the feature of modifying one or more prescribed fields in an existing media access control (MAC) channel to carry a plurality of control and signaling information directly between a base station and at least one mobile station.

Examiner's response: Bolourchi specifically disclose the method for processing downlink message between a node (base station) and a UE

(mobile device) which base station are generating a downlink control message in the MAC "medium access control" layer and physical layer signaling required for processing a message (i.e., data packet) (page 4, par. [0058-0060]) "Media access control (MAC) is a protocol in associated with wireless communication to has a standard which is a Layer 2 (Data link). So any wireless communication is required the Media access control (MAC) protocol.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-10,12-14, and 16-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Bolourchi et al (US Pub No: 2002/010013).

As to claim 1, Bolourchi et al teach a method for transmitting a plurality of control information between a base station (Node) and one or more mobile stations (UE) in a wireless communication network, the method comprising:

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modifying one or more prescribed fields (CRC, UE ID) in an existing "media access control (MAC) (page 4, par. [0058] "channel (SCCH-HS) to carry a plurality of control and signaling information directly between the base station and at least one mobile station "Fig. 9, page 4, par. [0052-0060]" by performing a cyclic redundancy check (CRC) calculation over the contents of a control field and mobile station identifier (page 1, par. [0007-0012], page 4, par. [0054-0060], CRC calculation over the contents of a control field discloses in par. [0054-0057]).

As to claim 2, Bolourchi et al teach the method according to claim 1, wherein the control and signaling information includes one or more identifiers (UE IDs), and wherein the one or more identifiers include information selected from the group consisting of routing information and message type, (page 4, paragraph [0059]).

As to claim 3, Bolourchi et al teach the method according to claim 2, wherein the routing information indicates the one or more mobile stations for which a transmission is intended, (page 4, paragraph [0052]).

As to claim4, Bolourchi et al teach the method according to claim 3, wherein the plurality of control and signaling information comprises data 102 (Fig. 4B) and a signaling information (page 2, paragraph [0034]).

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As to claim 5, Bolourchi et al teach the method according to claim 3, wherein the transmission is simultaneously transmitted (Fig. 8), (page 4, paragraph [0052]) and intended for a plurality of mobile stations (page2, paragraph [0037]).

As to claim 6, Bolourchi et al teach the method according to claim 2, wherein the message type indicates a type of action to be carried out by a recipient mobile station (page 4, paragraph [0052]).

As to claim 7, Bolourchi et al teach the method according to claim 1, wherein the control and signaling information includes message address information Fig. 9, (page 4, paragraph [0058]) for a single mobile station.

As to claim 8, Bolourchi et al teach the method according to claim 1, wherein the control and signaling information includes common message address information Fig. 8, (page 4, paragraphs [0058-0059]) for a plurality of mobile stations.

As to claim 9, Bolourchi et al teach the method according to claim 8, wherein the control and signaling information includes an identifier indicating a broadcast transmission (page 4, paragraph [0052]) to the plurality of mobile stations.

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As to claim 10, Bolourchi et al teach the method according to claim 8, wherein the control and signaling information includes an identifier indicating a multicast transmission (page 4, paragraph [0052]) for a prescribed number of the plurality of mobile stations.

As to claim 12, Bolourchi et al teach the method according to claim 2, wherein a routing information identifier comprises an explicit set of bits transmitted in a frame (FIG. 4A-B, page 4, paragraphs [0052-0059]) of the existing control channel.

As to claim 13, Bolourchi et al teach the method according to claim 1, wherein the existing control channel includes a message identification field 404, 412, (Fig. 7A) and the control field (page 4, par. [0053]).

As to claim 14, Bolourchi et al teach the method according to claim 13, wherein the control field includes the control and signaling information (page 4, paragraphs [0053-0060]).

As to claim 16, Bolourchi et al teach the method according to claim 15, wherein the transmission includes the mobile station identifier, the CRC calculation, and the control field (See page 3, paragraphs [0048-0049]).

As to claim 17, Bolourchi et al teach the method according to claim 15, wherein the transmission includes the CRC calculation and the control field.

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and wherein routing information is derived at a receiving mobile station by performing a CRC calculation on the received transmission together (Fig. 7A, 7B) with the receiving mobile station's mobile station identifier (See page 4, paragraphs [0050-0053]).

As to claim 18, Bolourchi et al teach the method according to claim 12, wherein routing information for a transmission is derived via an logical exclusive OR operation performed on a mobile station identifier and a cyclic redundancy check (CRC) calculated on the contents of a control frame (page 4, paragraphs [0050-0053]) in the existing control channel (See page 3, par. [0043-0045]).

As to claim 19, Bolourchi et al teach the method according to claim 13, wherein the message identification field comprises at least two parts, wherein a first part identifies a recipient mobile station for the transmission and wherein a second part indicates a message type (See page 4, paragraphs [0058-0060]).

As to claim 20, Bolourchi et al teach a method for transmitting a plurality control and signaling information between a base station and one or more mobile stations in a wireless communication network, the method comprising: modifying one or more prescribed fields in an existing media

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access control (MAC) (page 4, par. [0058]" channel "Fig. 1A-C" to carry one or more prescribed message identifiers Fig. 4A, 4B, (pages 2-3, paragraphs 33-41) between the base station and the one or more mobile stations by performing a cyclic redundancy check (CRC) calculation over the contents of a control field and mobile station identifier (page 1, par. [0007-0012], page 4, par. [0054-0060], CRC calculation over the contents of a control field discloses in par. [0054-0057]), wherein the one or more prescribed message identifiers comprise control and signaling information selected from the group consisting of routing information, message type (page 4, paragraphs [0052-0059]), control information, and a signaling message Fig. 9, (page 4, paragraphs [0058-0060]), whereby express signaling occurs directly between the base station and at least one mobile

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Claim Rejections - 35 USC § 103

station Fig. 8, (page 4, paragraphs [0052-0054]).

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bolourchi et al in view of Willenegger (Pub. No. US 2002/0110181).

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As to claim 11, Bolourchi et al fail to teach the express signaling information includes an identifier indicating available Walsh space for transmission of data between the base station and the one or more mobile stations. Willenegger teaches the express signaling information includes an identifier indicating available Walsh space (Walsh code sequences) for transmission 302, (Fig. 3), (page 3, paragraph 28) of data between the base station and the one or more mobile stations (page1, paragraphs (0004-0008). Communications between a base station and each user are coded by a distinct Walsh code sequence in order to separate each user from the others (page 3, paragraph 28). Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to provide the Walsh code sequence of Willenegger to the system of Bolourchi et al in order to separate each user from the orders (See page 3, paragraph 28).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUOC H. DOAN whose telephone number is 571-272-7920. The examiner can normally be reached on 9:30 AM - 6:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, GEORGE ENG can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuoc Doan 05/22/06

CHARLES APPIAH PRIMARY EXAMINER